

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims**

1.-20. (Cancelled)

21. (Previously presented) A method for treating schizophrenia, the method comprising a step of administering to a patient with schizophrenia a therapeutically effective, non-lethal amount of a botulinum toxin, wherein the botulinum toxin is locally administered to a brain region selected from the group consisting of a lower brain region and pontine region, thereby treating schizophrenia.

22. (Original) The method of claim 21, wherein the botulinum toxin is botulinum toxin type A.

23. (Cancelled)

24. (New) The method of claim 21, wherein the botulinum toxin is selected from the group consisting of botulinum toxin types A, B, C, D, E, F and G.

25. (New) The method of claim 21, wherein the botulinum toxin is administered in an amount between about  $10^{-3}$  U/kg and about 10 U/kg.

26. (New) The method of claim 21, wherein the administration step includes implantation of a botulinum toxin containing controlled release system.

27. (New) The method of claim 21, further comprising the step of using a stereotactic placement apparatus.

28. (New) The method of claim 22, wherein the botulinum toxin type A is administered in an amount between about  $10^{-4}$  U/kg and about 10 U/kg.

29. (New) A method for treating schizophrenia, the method comprising a step of administering to a patient with schizophrenia a therapeutically effective amount of a botulinum toxin type A, wherein the botulinum toxin type A is locally administered to a brain region selected from the group consisting of a lower brain region and pontine region, thereby treating schizophrenia.